## We claim:

- 1. A dual mode packet phone comprising:
  - a first connector to connect the phone with a data network; and a second connector to connect the phone with a backup network.
- 2. The phone of claim 1 wherein the backup network is a digital network.
- 3. The phone of claim 2 wherein the backup network is an analog network.
- 4. The phone of claim 1 further comprising a data network interface and a control unit for sensing when the data network is non-functioning.
- 5. The phone of claim 1 further comprising a backup switch for switching between the data network and the backup network.
- 6. The phone of claim 1 wherein the first connector is an RJ-45 Ethernet connector.
- 7. The phone of claim 6 wherein the second connector is an RJ-11 connector.

- 8. The phone of claim 5 wherein the second connector is in communication with a bypass unit.
- 9. The phone of claim 1, further comprising a bypass unit and wherein:

  the first connector is an RJ-45 Ethernet connector to a local area network;

  the second connector is an RJ-11 connector to a bypass internal analog line;

  wherein a bypass unit activates the bypass internal analog line through the

  RJ-11 connector when the bypass unit senses an off-hook condition on said

  line.
- 10. The phone of claim 9, further comprising an analog trunk between the bypass unit and a Public Network.
- 11. The phone of claim 10 further comprising a gateway analog line, and wherein in a normal of operation of the phone, the bypass unit connects the gateway analog line to the analog trunk.
- 12. The phone of claim 11, wherein the phone shares a set of analog trunks irrespective of whether the gateway analog line or the bypass internal analog line is passing voice information to the bypass unit.
- 13. The phone of claim 1, further comprising bypass and gateway external analog lines that are dedicated trunk circuits from the PSTN.

- 14. The phone of claim 2 wherein the data network is a Voice-over-IP Ethernet LAN.
- 15. The phone of claim 14 wherein the backup network is a digital time division multiplexing (TDM) network.
- 16. The phone of claim 15 wherein the TDM network is a standard digital interface.
- 17. The phone of claim 15 wherein the TDM network is a proprietary digital interface.
- 18. The phone of claim 15 further comprising means for switching between the data network and the backup network.
- 19. The phone of claim 14 wherein the first connector is an RJ-45 Ethernet connector.
- 20. The phone of claim 19 wherein the second connector is an RJ-11 connector.
- 21. The phone of claim 1 further comprising:
  - a. a voice processing unit for transmitting and receiving voice signals;
  - b. a data network interface in communication with the first connector;

c. a line interface in communication with the second connector;

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- d. a backup switch that can selectively provide a connection between the voice processing unit and either the line interface or the data network interface; and
- e. a control unit having a bi-directional link with the voice processing unit, the data network interface, the line interface, and the backup switch.
- 22. The phone of claim 21 wherein the data network is a Voice-over-IP Ethernet LAN.
- 23. The phone of claim 22 wherein the backup network is a digital time division multiplexing (TDM) network.
- 24. The phone of claim 22 wherein the backup network comprises an external analog line to a PSTN.
- 25. The phone of claim 22 wherein the backup network comprises an internal analog line to a bypass unit.